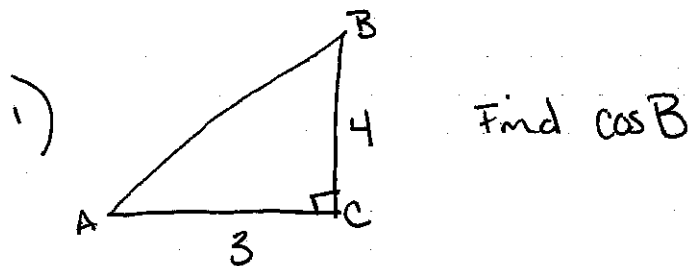
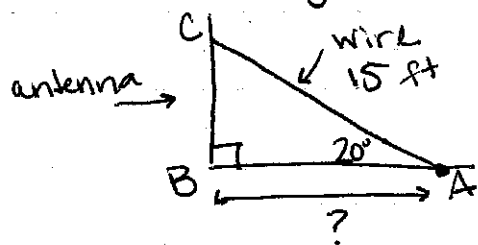


# Trig (RTT) Test Prep



- 2) The angle of elevation from a point 35 ft from the base of a tree on level ground to the top of the tree is  $40^\circ$ . Write an equation that can be used to find the height of the tree.

- 3) A 15-ft wire attached to an antenna makes a  $20^\circ$  angle with the level ground, as shown below.
- What is the approximate distance from the base of the antenna to the place where the wire is staked to the ground?



- 4)
- 
- Write an equation and solve it for  $x$ .
- $38^\circ$
- $x$
- 19 ft

5) Given that  $\sin A = \frac{\sqrt{5}}{3}$  and  $\cos A = -\frac{2}{3}$ ,

which of the following trig ratios is NOT correct?

A.  $\sec A = \frac{3}{2}$

C.  $\cot A = -\frac{2\sqrt{5}}{5}$

B.  $\tan A = -\frac{\sqrt{5}}{2}$

D.  $\csc A = \frac{3\sqrt{5}}{5}$

6) From an airplane at an altitude (height) of 1200 m, the angle of depression to a rock on the ground measures  $28^\circ$ . Find the distance from the plane to the rock.

7) From a point on the ground 12 ft from the base of a flagpole, the angle of elevation of the top of the pole measures  $53^\circ$ . How tall is the flagpole?

8) Brian's kite is flying above a field at the end of 65 m of string. If the angle of elevation to the kite measures  $70^\circ$ , and Brian is holding the kite 1.2 m off the ground. How high above the ground is the kite flying?